

Section XI. Diesel Engine Reporting Requirements

A. General.

In 1998, the ARB identified diesel exhaust particulate matter (diesel PM) as a toxic air contaminant (TAC). As part of that process, the California Office of Environmental Health Hazard Assessment (OEHHA) adopted a new cancer potency factor for public exposure to diesel PM. Application of the diesel PM cancer potency factor to emissions at facilities with diesel engines indicated that many of these facilities had the potential to pose a significant risk to the public.

Due to the large number of facilities with diesel engines and the toxicity of diesel PM, special reporting procedures apply to facilities with diesel engines. The special diesel reporting procedures were developed in part to integrate the AB 2588 "Hot Spots" process for facilities with diesel engines with the Stationary Diesel Engine Air Toxic Control Measure (ATCM; section 93115, title 17, California Code of Regulations (CCR)) to eliminate duplicative reporting requirements.

B. Facilities Subject to Diesel Engine Reporting Requirements.

A facility with a diesel engine is subject to section XI of this regulation if the facility meets the following criteria.

- (i) The facility operates any number of diesel engines for more than 20 hours per year combined total at the facility; and
- (ii) The use of any number of diesel engines is a 'routine and predictable' operation of the facility (maintenance and testing hours are considered 'routine and predictable' and must be reported in the facility's emission inventory); and
- (iii) The diesel engine is not defined as a "vehicle" or "motor vehicle" in Vehicle Code section 670 or section 415, which is referenced in Health and Safety Code section 39039.

A "Diesel Engine-Only" Facility is exempt from this regulation if a screening health risk assessment or facility prioritization score is equal to or less than 1, as described in Section XI.D.(1)(b).

C. Diesel PM Inventory Requirements for Facilities with Diesel Engines.

(1) Reporting Schedule

(a) Existing Facilities with Diesel Engines

A Facility with any number of diesel engines shall submit a diesel PM inventory to the district that includes all of the information listed in section XI.C.(2) upon request by the district.

(b) Additional Diesel Engine or Equipment Installed at a Facility

Any facility that intends to install a diesel engine must submit sufficient information to the district in order for the district to calculate a prioritization score or screening health risk assessment.

(c) Submittal of Diesel PM Information from the District to ARB

The district shall submit the diesel PM inventory from every facility with a diesel engine subject to this regulation to ARB during the next annual inventory submittal, and as part of the inventory report for the other toxics at the facility during the regular quadrennial reporting schedule thereafter. The district shall also submit a list of facilities with diesel engines and their risk assessment scores and status in the "Hot Spots" program as of January 1, 2009, to ARB by January 1, 2010.

(2) Reporting Requirements

(a) Diesel Engines Greater than 50 Horsepower

The following information must be submitted for each diesel engine.

- Engine owner or company name
- Address/location of each diesel engine
- Contact name, phone number, address, and e-mail
- Rated brake horsepower
- Make, model, engine family, and serial number of engine
- Year of manufacture (or approximate age)
- Exhaust stack height from ground
- Control equipment (turbo, aftercooler, injection timing retard, catalyst, diesel particulate filter, other)
- Fuel used (CARB diesel, jet fuel, diesel, alternative diesel fuel, alternative fuel, combination-dual fuel, other)
- General description of how engine is used
- Typical load (% of bhp rating)
- Typical annual hours of operation
- Fuel usage rate
- Distance to nearest offsite receptor location (commercial / residential)
- Is engine already included in an existing ARB "Hot Spots" emission inventory?
- Emission factor for PM
- Diameter and direction (horizontal or vertical) of stack outlet
- End of stack (open or capped)
- Compliance plan describing how the facility is complying with the stationary diesel engine ATCM.

The district may request that additional or more detailed information be submitted in order to describe the relative locations of engines, buildings, and receptors.

(b) Diesel Engines Equal to or Less than 50 Horsepower

The district may request the information in Section XI.C.(2)(a) for diesel engines equal to or less than 50 horsepower if the district determines that the information is necessary to evaluate the risk at the facility.

(3) Reporting Period for Facilities with Diesel Engines

Any facility subject to this section must report the actual annual hours of operation for diesel engines at the facility for the previous calendar year as required in section V.K., unless the district chooses to use information related to the stationary diesel engine ATCM, for "Hot Spots" emission inventory and risk assessment purposes. The district shall begin evaluating facilities with diesel engines no later than 2007.

D. Risk Analysis Procedures for Facilities with Diesel Engines.

(1) Screening Risk Assessment for Facilities with a Stationary Diesel Engine

(a) Applicability

A facility with a diesel engine subject to this regulation must submit all of the information in section XI.C.(2), and any further information requested by the district that is needed to calculate a screening health risk assessment. Based on the results of the screening risk assessment or prioritization score, the district shall determine if a full health risk assessment is necessary.

(b) Screening Health Risk Assessment Tables for Diesel Engines

The district may evaluate the diesel PM risk from a facility with diesel engines using the ARB's screening health risk assessment tables, which are incorporated by reference in Appendix G. A facility with a screening health risk assessment, or facility prioritization score, equal to or less than 1 is exempt from this regulation.

(2) Health Risk Assessment Update

A facility may request that the district recalculate a health risk assessment by adding a screening health risk assessment score for diesel PM to the current health risk assessment for the facility. If the combined risk indicates that the facility is a potential significant risk, the district may require the facility to complete a full health risk assessment. If the score indicates that the facility is not a significant risk, the health risk assessment is updated to reflect the diesel risk, the facility shall be classified as an "Intermediate-Level" facility, and is subject to the reporting requirements specified in section IV.C.

E. “Diesel Engine-Only” Facility Classification.

The district may classify a facility as a “Diesel Engine-Only” Facility if the district determines that diesel engine emissions are the only air pollutants released from the facility that have the potential to impact public health. A “Diesel Engine-Only” Facility is eligible for modified requirements for inventory reporting, risk assessment, public notification, and fees, as described in sections XI.C through XI.I.

A facility designated as “Low-Level” (prioritization score or health risk assessment less than or equal to 1) may request that the district include the facility in the “Diesel Engine-Only” Facility classification if the facility has submitted the information in section XI.C.(2) to the district. An “Intermediate-Level” or “High-Level” facility may not be classified as a “Diesel Engine-Only” Facility.

F. “Diesel Engine-Only” Facilities That Reduce Their Operating Hours.

Any “Diesel Engine-Only” Facility that reduces their total operating hours for their diesel engines to less than 20 hours per year combined total for all engines (for non-emergency operations) is not subject to this regulation if the district determines that the facility does not impact public health, and that the emission reductions are permanent and enforceable.

G. Redesignation.

(1) Facilities That Increase Their Emissions

If a facility that the district has designated as a “Diesel Engine-Only” Facility increases emissions of any listed substance, including diesel PM, the facility is subject to section II.C.(2) and II.E.(1) of this regulation and must submit an inventory update to the district.

(2) District Requirements

The district shall reevaluate and shall redesignate a facility’s update category within 180 days of the facility submitting an updated inventory report pursuant to section XI.G.(1), and transmit this information to the ARB.

H. Public Notification for “Diesel Engine-Only” Facilities.

A facility that has been identified as a significant risk shall conduct public notification in accordance with procedures specified by the district. The district may allow an optional notification procedure for diesel engine-only facilities that allows similar diesel engine-only facilities to be grouped together for purposes of public notification.

I. State Fees for “Diesel Engine-Only” Facilities.

A facility classified as a “Diesel Engine-Only” Facility may be assessed the same State fee rate that an “Industrywide” facility is assessed in the AB 2588 Air Toxics “Hot Spots” Fee Regulation, section 90700-90705, title 17, California Code of Regulations (CCR). A “Diesel-Engine-Only” Facility that operates diesel engines for less than 20 hours per year combined total at the facility is not subject to “Hot Spots” State fees.

[END OF SECTION XI]